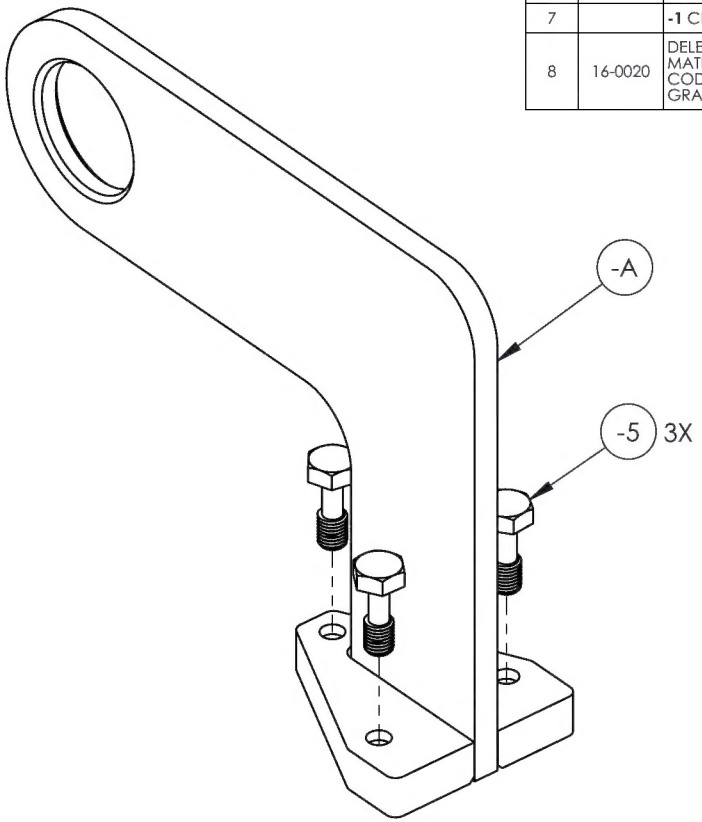
REVISIONS

REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		**-1** CH'D SLOT WIDTH FROM 1/4 in. TO .313. **-3** CH'D THICKNESS FROM 1/4 IN.	6/22/2007	WP	DW
2		DELETED ENGINE ENGRAVING, ADDED TAG & WORKING LIMIT.	8/15/2007	WP	DW
3		ADDED NEW TITLEBLOCK & BOM, ADDED SECOND PAGE.	8/21/2007	WP	DW
4		ADDED NOTES BELOW.	4/21/2008	WP	DW
5		**-A** ADDED ENGINE LIFT WELDMENT TO BOM DUE TO ACCESS FROM CUSTOMER PARTS DWG.	4/30/2009	WP	RW
6		**-3** CH'D CHAMFER FROM .032 TO .062 X 45°.	11/4/2009	RJC	RW
6A		**-3** ADDED SWL ENGRAVING WAS 300 LBS. IS 375 LBS.	9/20/2010	WP	RW
6B		**-A** ADDED ENGINE LIFT WELDMENT DWG., CH'D FINISH FROM BLACK OXIDE TO BLACK ZINC. **-3** CH'D ENGRAVE NOTES.	8/26/2011	RJC	RW
6C		**-5** CH'D FROM PLAIN TO S.S.& ADDED P/N.	8/30/2011	RJC	SE
7		**-1** CH'D DIM FROM 2.000 TO 2.00. **-3** CH'D MATERIAL THICKNESS FROM .312.	5/10/2012	RJC	GE
8	16-0020	DELETED NOTE 3 SHT ONE. **-1** CH'D DIM WAS .313 S.F. -3 IS .318 +.010-.000, WAS .500 IS .50. CH'D MATERIAL WAS 1018 IS A36/1018/1020 HR. **-3** CH'D NOTE WAS ENGRAVE P/N: RBT18645, S/N, CAGE CODE: AE1A0, MADE IN USA TO FIT IS ENGRAVE PER WORK ORDER. CH'D MATERIAL WAS A709 GRADE 36 IS A36/1018/1020 HR.	2/4/2016	RJC	JAG



NOTE:
1. THIS ASSY. IS USED AS THE TOP MOUNT ENGINE ASSY. LIFT ON THE SCHWEIZER 330 & FIRE SCOUT MODELS.
2. WEIGHT TEST TO 750 LBS.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-A	1	ENGINE LIFT WELDMENT			2
	1		-1		BASE	A36/1018/1020 HR		3
	1		-3		EYE PLATE	A36/1018/1020 HR		4
			-5	3	HEX HEAD CAP SCREW	S.S.	5/16-24 X 7/8 (MCMASTER-CAR #92240A304) MODIFIED	5
	ASSY -A							

DART AEROSPACE

TITLE
FIRE SCOUT ENGINE LIFT ASSEMBLY

DWG NO. RBT18645 REV 8

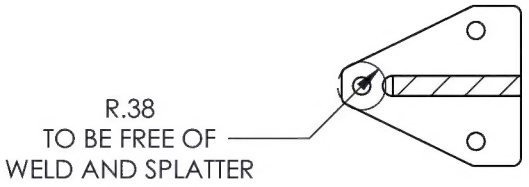
MAT'L	
HEAT TREAT	
FINISH	
SPEC	
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ±.5°
.X ± .1 SURFACES = 125√
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

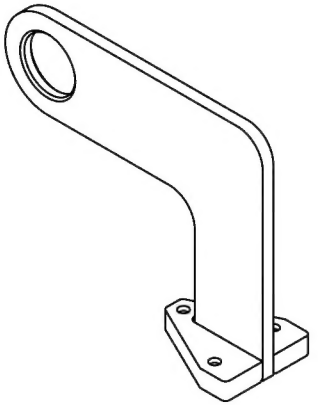
USED ON MODEL
SEE NOTE SHT 1

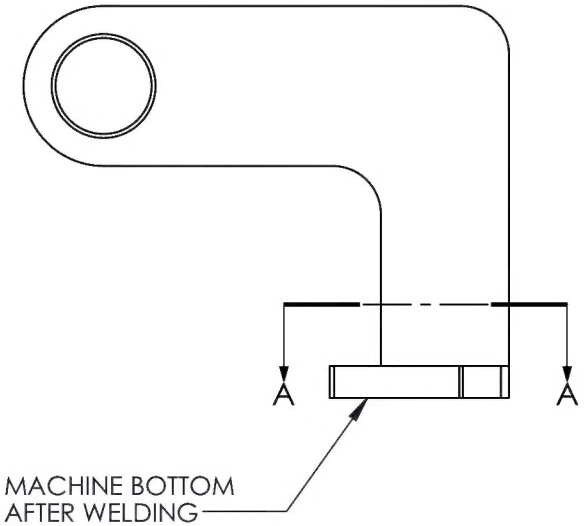
SCALE 1:2 DATE 6/1/2007 SHEET 1 OF 7

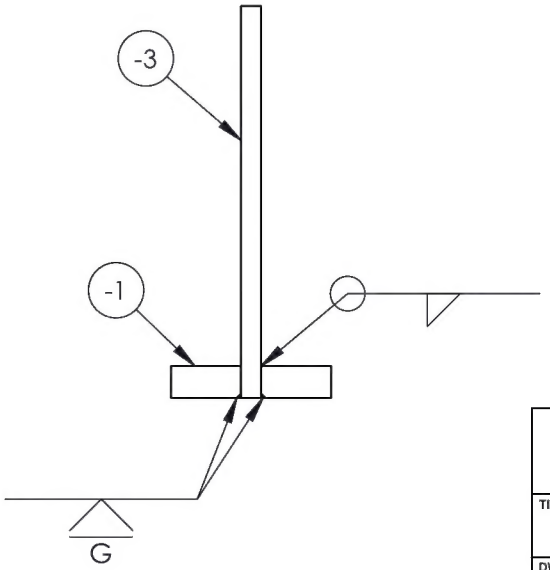
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		**-A** ADDED ENGINE LIFT WELDMENT TO BOM DUE TO ACCESS FROM CUSTOMER PARTS DWG.	4/30/2009	WP	RW
6B		**-A** ADDED ENGINE LIFT WELDMENT DWG., CH'D FINISH FROM BLACK OXIDE TO BLACK ZINC.	8/26/2011	RJC	RW



SECTION A-A







(-A)

ENGINE LIFT WELDMENT

DART AEROSPACE

TITLE: FIRE SCOUT ENGINE LIFT ASSEMBLY

DWG NO. RBT18645-A REV. 8

MAT'L	
HEAT TREAT	
FINISH	ZINC PLATE
SPEC	ASTM B633 TYPE I SC 2
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8
.XX ± .03 ANGLES ±1°
.X ± .1 SURFACES = 125

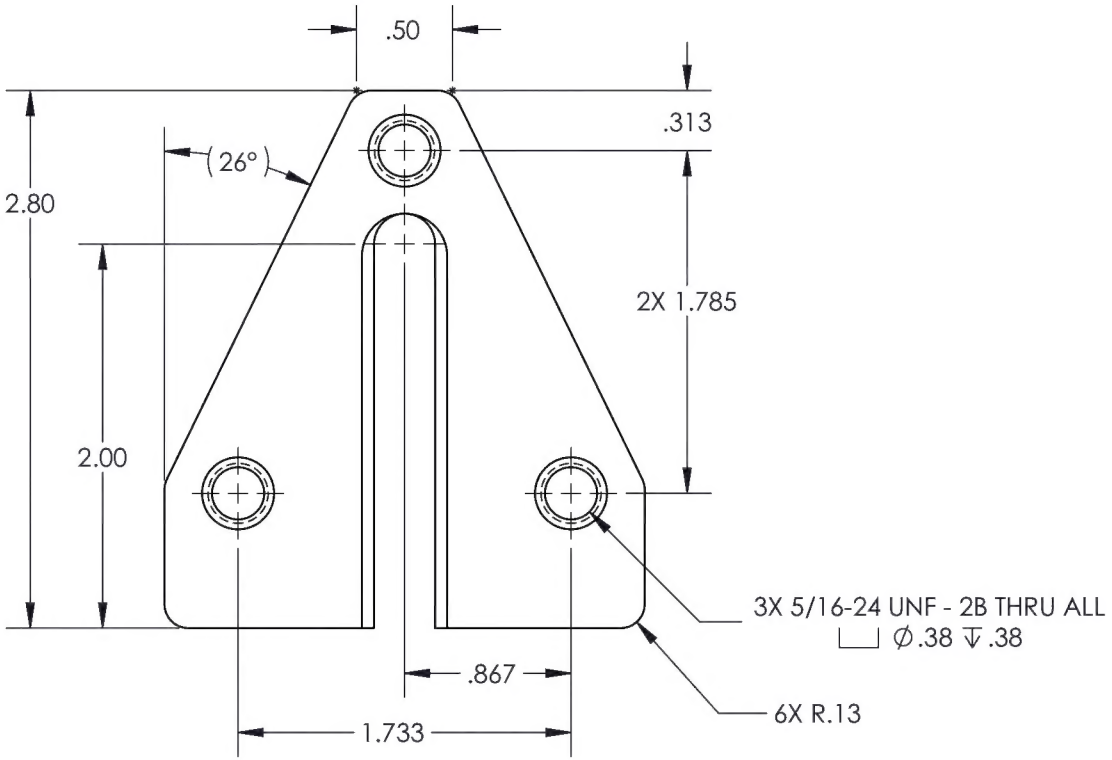
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

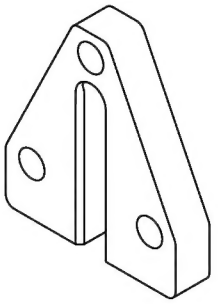
USED ON MODEL: SEE NOTE SHT 1

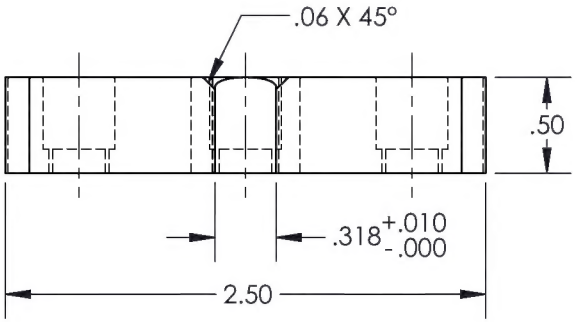
SCALE 1:3 | DATE 6/1/2007 | SHEET 2 OF 7

REVISIONS

REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		**-1** CH'D SLOT WIDTH FROM 1/4 in. TO .313.	6/22/2007	WP	DW
7		**-1** CH'D DIM FROM 2.000 TO 2.00.	5/10/2012	RJC	GE
8	16-0020	**-1** CH'D DIM WAS .313 S.F. -3 IS .318 +.010-.000, WAS .500 IS .50. CH'D MATERIAL WAS 1018 IS A36/1018/1020 HR.	2/4/2016	RJC	JAG







-1

BASE

DART AEROSPACE

TITLE: FIRE SCOUT ENGINE LIFT ASSEMBLY

DWG NO. RBT18645-1 REV 8

MAT'L	A36/1018/1020 HR
HEAT TREAT	
FINISH	SEE -A
SPEC	
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ±.5°
.X ± .1 SURFACES = 125

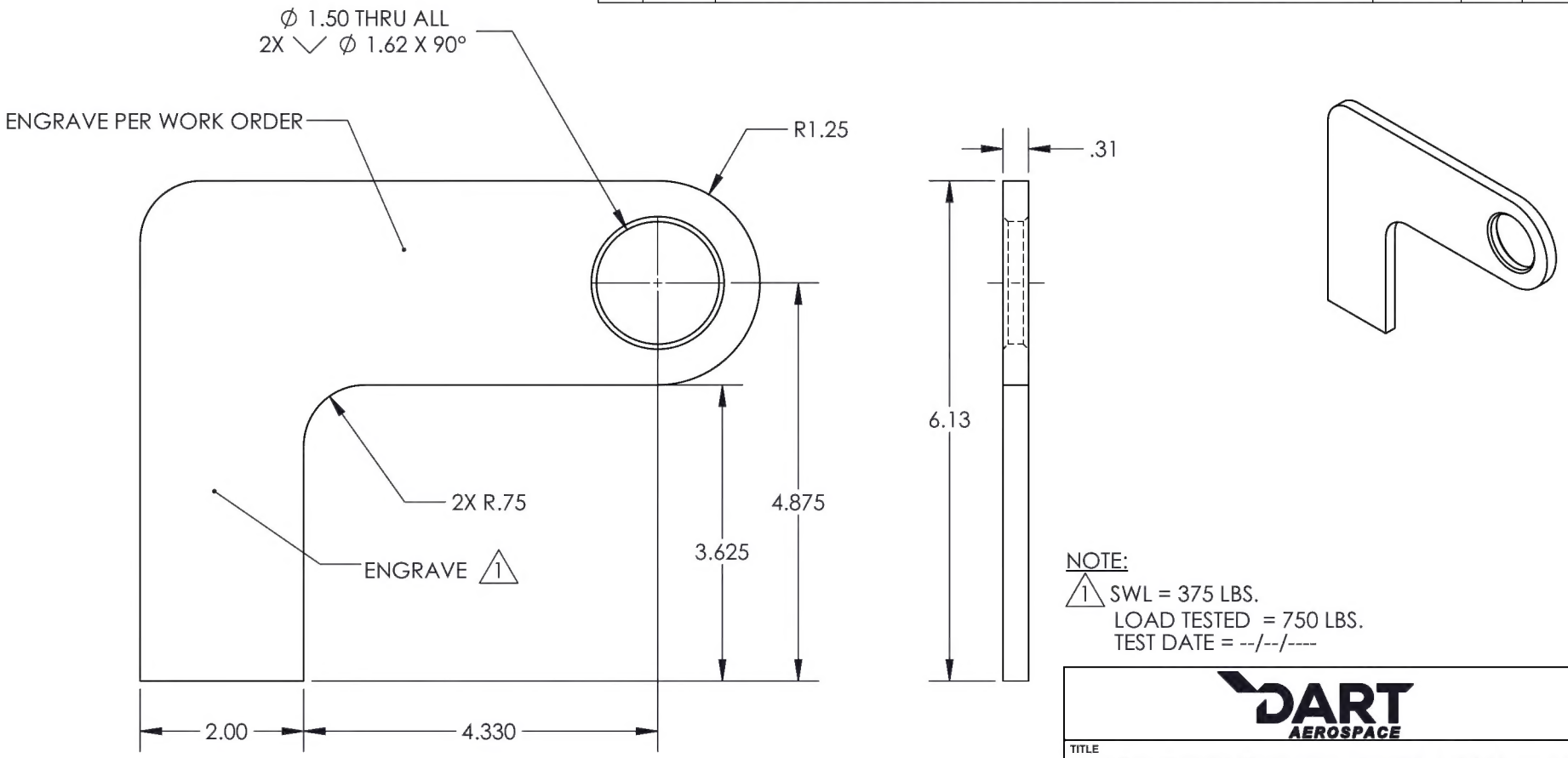
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL: SEE NOTE SHT 1

SCALE 1:1 | DATE 6/1/2007 | SHEET 3 OF 7

REVISIONS

REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		**-3** CH'D THICKNESS FROM 1/4 IN.	6/22/2007	WP	DW
6		**-3** CH'D CHAMFER FROM .032 TO .062 X 45°.	11/4/2009	RJC	RW
6A		**-3** ADDED SWL ENGRAVING WAS 300 LBS. IS 375 LBS.	9/2/2010	WP	RW
6B		**-3** CH'D ENGRAVE NOTES.	8/26/2011	RJC	RW
7		**-3** CH'D MATERIAL THICKNESS FROM .312.	5/10/2012	RJC	GE
8	16-0020	**-3** CH'D NOTE WAS ENGRAVE P/N: RBT18645, S/N, CAGE CODE: AE1A0, MADE IN USA TO FIT IS ENGRAVE PER WORK ORDER. CH'D MATERIAL WAS A709 GRADE 36 IS A36/1018/1020 HR.	2/4/2016	RJC	JAG



NOTE:

1. SWL = 375 LBS.
   LOAD TESTED = 750 LBS.
   TEST DATE = --/--/----

-3

EYE PLATE

DART AEROSPACE

TITLE: FIRE SCOUT ENGINE LIFT ASSEMBLY

DWG NO. RBT18645-3 REV 8

MAT'L	A36/1018/1020 HR
HEAT TREAT	
FINISH	SEE -A
SPEC	
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
SCALE	1:2
DATE	6/1/2007

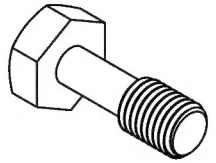
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ±.5°
.X ± .1 SURFACES = 125

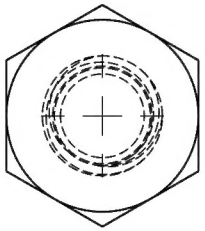
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

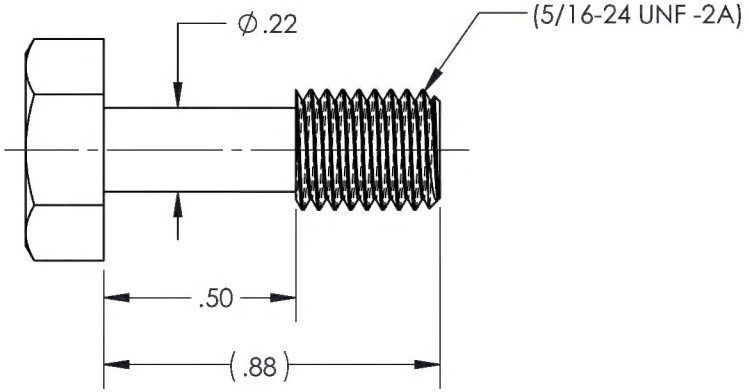
USED ON MODEL: SEE NOTE SHT 1

SHEET 4 OF 7

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
6C		**-5** CH'D FROM PLAIN TO S.S.& ADDED P/N.	8/30/2011	RJC	SE







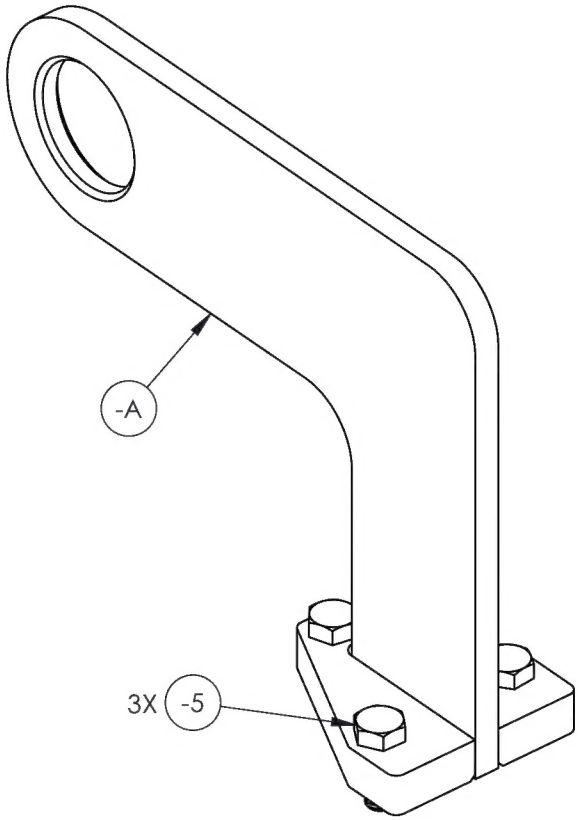
-5

HEX HEAD CAP SCREW

DART AEROSPACE

TITLE
FIRE SCOUT ENGINE LIFT ASSEMBLY

DWG NO.	RBT18645-5	REV	8
MAT'L S.S.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX ± .005 FRACTIONS ± 1/8	
FINISH		.XX ± .01 ANGLES ±.5°	
SPEC		.X ± .1 SURFACES = 125	
DRAWN BY:	PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED:	DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR:	LINDSAY	USED ON MODEL	
APPROVED:	GILBERT	SEE NOTE SHT 1	
SCALE 2:1	DATE 6/1/2007	SHEET 5 OF 7	



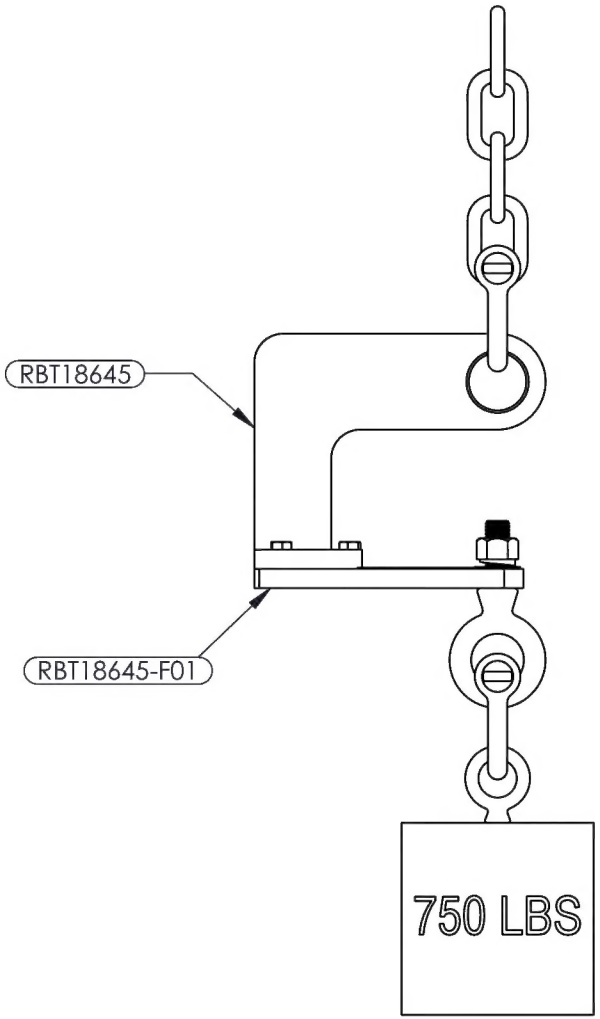
NOTE:
1. THE RBT18645 LIFTING ASSEMBLY CAN BE USED ON THE SCHWEIZER 330 TOP MOUNT & THE R.R. C18 & C20 USING THE BOTTOM MOUNT POSITION.

Part #	UNIT QTY	Description
-A	1	ENGINE LIFT WELDMENT
-5	3	HEX HEAD CAP SCREW

DART AEROSPACE
190 S. Danebo Ave., Eugene, OR. 97402
1-800-556-4166
e-mail: sales@dartaero.com
dartaerospace.com

TITLE: FIRE SCOUT ENGINE LIFT ASSEMBLY

DWG NO.	REV	
RBT18645	8	CUSTOMER 1 OF 1
SCALE 1:2	DATE 6/1/2007	SHEET 6 OF 7



INSPECTION AND TESTING PROCEDURES FOR THE RBT18645, FIRE SCOUT ENGINE LIFT ASSEMBLY. THIS ASSEMBLY IS DESIGNED TO LIFT THE FIRE SCOUT ENGINE ASSEMBLY. THIS ASSEMBLY MUST BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

91 DAY INSPECTIONS
1. CLEAN ENTIRE UNIT AND REMOVE ANY CORROSION.
2. INSPECT THE EYE PLATE FOR STRESS CRACKS, BENDING, OR DISTORTION.
3. INSPECT THE WELDS FOR CRACKS OR DISTORTION.
4. INSPECT ALL BOLTS FOR DAMAGED THREADS, STRESS CRACKS, STRETCHING OR DISTORTION.
5. REPAINT IF NECESSARY.

IF ANY OF THE ABOVE CONDTIONS EXIST, OR ARE SUSPECTED OF EXISTING DO NOT USE THE TOOL UNTIL IT HAS BEEN REPAIRED AND TESTED OR REPLACED.

3 YEAR WEIGHT TESTING
1. AFTER INSPECTION SECURELY FASTEN THE RBT18645 ASSEMBLY TO THE RBT18645-F01 TESTING PLATE USING EXISTING BOLTS.
2. USING THE APPROPRIATE SHACKLES AND CHAIN (2 TON MINIMUM PREFERRED) ATTACH THE TESTING PLATE TO A 750 POUND TEST WEIGHT. ATTACH THE LIFTING EYE TO A CRANE (2 TON MINIMUM PREFERRED)OR OTHER COMPATABLE LIFTING DEVICE.
3. CAREFULLY LIFT UNTIL THE TEST WEIGHT IS APPROXIMATELY ONE FOOT OF THE GROUND.
4. LEAVE THE WEIGHT SUSPENDED FOR 5 MINUTES. WHILE THE WEIGHT IS SUSPENDED CAREFULLY OBSERVE THE RBT18645 LIFT ASSEMBLY FOR ANY DEFLECTION AND DISTORTION.
5. AFTER 5 MINUTES, LOWER AND DISCONNECT THE TEST WEIGHT, SHACKLES, AND CHAIN. RE-INSPECT THE LIFTING ASSEMBLY.

NOTE:
1. THIS ASSY. IS USED AS THE TOP MOUNT ENGINE ASSEMBLY LIFT ON THE SCHWEIZER 330 & FIRE SCOUT MODELS.

DART AEROSPACE
190 S. Danebo Ave., Eugene, OR. 97402
1-800-556-4166
e-mail: sales@dartaero.com
dartaerospace.com

TITLE: FIRE SCOUT ENGINE LIFT ASSEMBLY			
DWG NO. RBT18645		REV 8	CUSTOMER 1 OF 1
SCALE 1:5	DATE 9/20/2010		SHEET 7 OF 7